GOVERNMENT OF INDIA
URBAN DEVELOPMENT
LOK SABHA

UNSTARRED QUESTION NO:4481
ANSWERED ON:14.12.2016
Waste Management
Adityanath Shri Yogi;Butta Smt. Renuka;Kodikunnil Shri Suresh;Mahendran Shri C.;Premachandran Shri N.K.;Rao (Avnthi) Shri Muthamsetti Srinivasa;Udhayakumar Shri M.

Will the Minister of URBAN DEVELOPMENT be pleased to state:

Will the Minister of URBAN DEVELOPMENT be pleased to state:

(a) the estimated quantum of sewage, solid waste and garbage being generated and treated in urban areas in the country, city and State-wise;

(b) the details of land fill sites and waste treatment plants in the country, city and State-wise;

(c) the mechanism for proper collection, transportation, processing and disposal of solid wastes and treatment of sewage;

(d) whether the Government proposes to implement new technologies for solid waste management and set up new sewage treatment plants and if so, the details thereof and the action taken/being taken by the Government in this regard;

(e) whether the Government has received requests from States for financial or technical assistance for setting up treatment facilities for disposal of waste and improve drainage system during the last three years and the current year; and

(f) if so, the details thereof, project, city and State-wise and the action taken/being taken by the Government thereon?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF URBAN DEVELOPMENT

(RAO INDERJIT SINGH)

(a): As per the assessment made by Central Pollution Control Board (CPCB) for 2015, the sewage generation in the urban areas of the Country is estimated to be about 61,948 MLD (approx.) and sewage treatment capacity is for 23,277 MLD, which is about 37.6% of the total sewage generation. Further, as per the data available till Oct. 2016, the total amount of solid waste generated in the urban areas of the Country is about 1,58,878 MT/D, of which only 21.45% is being treated, currently. The State-wise generation & treatment of sewage is at Annexure-I and the State-wise generation & processing of solid waste is at Annexure- II.

(b): There are 7 functional Waste to energy plants with a capacity to produce 88.4 MW. Further, there are 45 functional/sub optimal compost plants in the country, currently, with a production capacity of about 5 lakh MT/annum. At present, total annual production of city compost from these plants is approximately 1.5 lakh MT/annum. The details of the functional/operational waste treatment plants are at Annexure-III.

(c) & (d): Under Swachh Bharat Mission (Urban), the State/UT Government may implement any scientifically proven new solid waste management technologies as per their requirement and actual site condition. Also, under "Atal Mission for Rejuvenation and Urban Transformation (AMRUT)", the State/UT Governments may set up new sewage treatment plants as per their requirement.

(e) & (f): Details of funds released under Swachh Bharat Mission (Urban) for solid waste management projects, under AMRUT, under Urban Infrastructure Development in Satellite Towns around Seven Mega Cities (UIDSST) for SWM and Sewerage/drainage project and under the 10% Lumpsum provision scheme for North East Region for SWM and Sewerage/drainage projects during the last three years and current year are at Annexure-IV, V, VI and VII respectively.

ANNEXURE REFERRED TO IN REPLY TO LOK SABHA UN-STARRED QUESTION NO. 4481 FOR 14.12.2016 REGARDING "WASTE MANAGEMENT"

ANNEXURE-I

Status of Sewage Generation and Treatment Capacity of Urban Population of India, March 2015
<pre>
Sl. No. State Sewage Generation (MLD) Installed Treatment Capacity (MLD)
1. Andaman & Nicobar Islands 22 0

2. Andhra Pradesh 2871 247.27
3. Arunachal Pradesh 50
4. Assam 703 0.21

5. Bihar 1879 124.55

6. Chandigarh 164 314.5

7. Chhattisgarh 951 0
8. Dadra & Nagar Haveli 26 -
9. Daman & Diu 29 -
10. Goa 145 74.58
11. Gujarat 4119 3062.92
12. Haryana 1413 852.7
13. Himachal Pradesh 110 114.72
14. Jammu & Kashmir 547 264.74
15. Jharkhand 1270 117.24
16. Karnataka 3777 1304.16
17. Kerala 2552 152.97
18. Lakshadweep 8 -
19. Madhya Pradesh 3214 482.23
20. Maharashtra 8143 5160.36
21. Manipur 132 -
22. Meghalaya 95 1
23. Mizoram 90 10
24. Nagaland 92 -
25. Delhi 4155 2693.7
26. Odisha 1121 385.54
27. Pondicherry 136 68.5
28. Punjab 1664 1245.45
29. Rajasthan 2736 865.92
30. Sikkim 24 31.88
31. Tamil Nadu 5599 1799.72
32. Telangana 1671 685.8
33. Tripura 154 0.05
34. Uttar Pradesh 7124 2646.84
35. Uttarakhand 495 152.9
36. West Bengal 4667 416.9
Total 61,948 23,277
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ANNEXURE-II
State-wise solid waste generation and waste processing in the urban areas of India
<pre>
Sl. No. State Total waste generation (MT/D) Total waste processing (%)
1. Andhra Pradesh 6,440 8.0
2. Andman & Nicobar Islands 100 35.0
3. Arunachal Pradesh 181 15.0
4. Assam 650 10.0
5. Bihar 14,820 40.0
6. Chandigarh UT 340 100.0
7. Chhattisgarh 1,896 0.0
8. Daman & Diu 85 0.0
9. Dadra & Nagar Haveli 35 0.0
10. NCT of Delhi 8,400 52.0
11. Goa 183 52.0
12. Gujarat 9,277 28.0
13. Haryana 3,490 25.0
14. Himachal Pradesh 300 25.0
15. Jammu & Kashmir 1,792 2.0
16. Jharkhand 3,570 15.0
17. Karnataka 8,784 40.0
18. Kerala 1,576 50.0
19. Madhya Pradesh 5,079 14.0
20. Maharashtra 26,820 10.0
21. Manipur 176 50.0
22. Meghalaya 268 58.0
23. Mizoram 253 4.0
24. Nagaland 270 0.0
25. Odisha 2,460 2.0
26. Puduchery UT 495 20.0
27. Punjab 4,100 10.0
28. Rajasthan 5,247 16.0

29. Sikkim 49 0.0
30. Tamil Nadu 15,272 16.0
31. Telangana 6,628 49.0
32. Tripura 407 0.0
33. Uttar Pradesh 19,180 13.0
34. Uttarakhand 1,400 0.7
35. West Bengal 8,675 6.0
Total/ Average 1,58,878 21.45
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ANNEXURE-III

City-wise Operational Waste to Energy Plants in the Country
<pre>
S. No State Name of the City/ Town Capacity (MW)
1 Mahrashtra Pune 10
2 Maharashtra Solapur 3
3 New Delhi Okhla 12
4 New Delhi Ghazipur 16
5 Telangana Karimnagar 12
6 Madhya Pradesh Jabalpur 11.4
7 Delhi Narela- Bawana 24
Total 88.4
</pre>

City-wise Production Capacity and actual Production of Waste to Compost Plants in the Country
<pre>
S. No. State City Plant Compost Production Capacity (MT/Month) Actual Compost Production Capacity (MT/Month)
1 Chhattisgarh Dhamtari 113 42
2 Delhi New Delhi 5775 628
3 Delhi New Delhi 1650 42
4 Delhi Okhla 2063 652
5 Goa Panjim 107 19
6 Gujarat Ahmedabad 825 50
7 Gujarat Ahmedabad 1238 836
8 Gujarat Bhavnagar 825 25
9 Gujarat Dakor 3094 667
10 Gujarat Godhra 150 129
11 Gujarat Morbi 150 125
12 Gujarat Patan 150 129
13 Gujarat Porbandar 150 138
14 Gujarat Surat 825 42
15 Gujarat Surendra Nagar 150 138
16 Gujarat Vadodara 825 25
17 Karnataka Bangalore 3713 46
18 Karnataka Belgaum 619 176
19 Karnataka Mangalore 825 59
20 Karnataka Mysore 1031 392
21 Karnataka Shimoga 413 0
22 Kerala Calicut 413 284
23 Madhya Pradesh Indore 1031 667
24 Maharashtra Pune 2063 189
25 Maharashtra Nagpur 825 125
26 Maharashtra Turbhe 2063 692
27 Rajasthan Jaipur 1238 737
28 Tamil Nadu Coimbatore 2681 1079
29 Tamil Nadu Madurai 371 250
30 Tamil Nadu Trichy 1238 166
31 Tamil Nadu Conoor 37 27
32 Tamil Nadu Erode 413 109
33 Tamil Nadu Metupalyam 144 51
34 Tamil Nadu Pollachi 248 66
35 Tamil Nadu Udumplet 83 35
36 Telangana Hyderabad 15,262 1593
37 Telangana Suryapet 210 25
38 Uttar Pradesh Moradabad 619 250
39 Uttar Pradesh Muzafarnagar 495 333
40 Uttar Pradesh Aligarh 454 292
41 Uttar Pradesh Fatehpur 124 83

42 Uttar Pradesh Lucknow 375 83
43 Uttar Pradesh Allahabad 250 63
44 West Bengal Haldia 1031 73
45 West Bengal Kolkata 1500 1021
Total 57,853 12,651
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ANNEXURE-IV

FUNDS RELEASED UNDER SWACHH BHARAT MISSION (URBAN) FOR SOLID WASTE MANAGEMENT PROJECT
(Rs. in Crore)
<pre>
Sl. No. State/UT 2014-15 2015-16 2016-17 Total
1 A&N Islands 0.0648 0.0648
2 Andhra Pradesh 21.0200 185.9700 206.9900
3 Arunachal Pradesh 6.8400 6.8400
4 Assam 0.0000
5 Bihar 24.6600 71.9700 96.6300
6 Chandigarh 0.9800 1.3500 2.3300
7 Chhattisgarh 8.7941 8.7941
8 Dadra & Nagar Haveli 0.0000
9 Daman & Diu 0.0000
10 Delhi 4.3800 58.7300 63.1100
11 Goa 1.7000 2.0800 3.7800
12 Gujarat 0.0000
13 Haryana 12.5700 45.0850 57.6550
14 Himachal Pradesh 3.0000 6.1000 9.1000
15 Jammu & Kashmir 10.9000 10.9000
16 Jharkhand 9.3300 32.3190 41.6490
17 Karnataka 39.1400 18.1150 57.2550
18 Kerala 0.0000
19 Madhya Pradesh 52.9300 52.9300
20 Maharashtra 42.4300 42.4300
21 Manipur 9.6100 9.6100
22 Meghalaya 2.9800 2.9800
23 Mizoram 8.2100 8.2100
24 Nagaland 6.6800 6.6800
25 Odisha 18.9795 18.9795
26 Puducherry 1.0000 1.0000
27 Punjab 23.0000 23.0000
28 Rajasthan 33.6500 181.9500 215.6000
29 Sikkim 2.5200 2.5200
30 Tamil Nadu 13.1300 83.3900 108.4900 205.0100
31 Telangana 15.2200 50.0800 65.3000
32 Tripura 0.0000
33 Uttar Pradesh 37.5600 37.5600
34 Uttarakhand 5.0000 5.0000
35 West Bengal 34.5400 34.5400
STATE/UT 287.5000 286.4589 722.4885 1,296.4474
ANNEXURE REFERRED TO IN REPLY TO LOK SABHA UN-STARRED QUESTION NO. 4481 FOR 14.12.2016 REGARDING "WASTE MANAGEMENT"
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ANNEXURE-V

FUND RELEASE UNDER ATAL MISSION FOR REJUVENATION AND URBAN TRANSFORMATION (AMRUT)
(Rs. in crore)
<pre>
Sl.
No. State/UTs Total size of SAAP approved Central Assistance Central Assistance release
2015-16 2016-17 2015-16 2016-17 2015-16 2016-17
1 Andhra Pradesh 662.86 877.05 300.41 351.6 60.08 70.32
2 A &N Islands 3.18 3.6 3.18 3.6 0.64 0.72
3 Arunachal Pradesh 40.94 - 36.84 - 7.37 -
4 Assam 188.16 218.67 169.34 196.8 33.87 39.36
5 Bihar 664.20 775.2 332.10 387.6 66.42 77.52
6 Chandigarh 15.04 18 15.04 18 3.01 3.6
7 Chhattisgarh 573.40 740.38 276.47 308.58 55.29 61.72
8 Dadra & Nagar Haveli 3.41 3.6 3.41 3.6 0.68 0.72

9 Daman & Diu 4.56 5.75 4.56 5.75 0.91 1.15
10 Delhi 223.07 - 223.07 - 44.61 -
11 Goa 59.44 69.6 29.71 34.8 5.94 6.96
12 Gujarat 1204.42 1401 564.30 599.18 112.86 119.84
13 Haryana 438.02 525.4 219.01 254.4 43.80 50.88
14 Himachal Pradesh 88.23 101.33 79.41 91.2 15.88 18.24
15 Jammu & Kashmir 171.00 197.33 153.87 177.6 30.77 35.52
16 Jharkhand 313.36 376.8 137.95 165.81 27.59 33.16
17 Karnataka 1258.54 1624.72 592.29 771.6 118.46 154.32
18 Kerala 587.48 796.06 287.98 386.4 57.60 77.28
19 Lakshadweep 0.68 1.2 0.68 1.2 0.14 0.24
20 Madhya Pradesh 1655.81 2050.9 672.03 862.8 134.41 172.56
21 Maharashtra 1989.41 2489.91 914.92 1176 182.98 235.2
22 Manipur 51.43 60 46.29 54 9.26 10.8
23 Meghalaya 22.81 26.67 20.53 24 4.11 4.8
24 Mizoram 40.56 46.67 36.50 42 7.30 8.4
25 Nagaland 34.98 40 31.48 36 6.29 7.2
26 Odisha 461.30 530.4 228.14 265.2 45.63 53.04
27 Puducherry 18.97 21.6 18.97 21.6 3.79 4.32
28 Punjab 709.66 857.02 318.86 400.8 63.77 80.16
29 Rajasthan 919.00 1072.8 459.50 526.11 91.90 105.22
30 Sikkim 13.43 13.33 12.09 12.00 2.42 2.40
31 Tamil Nadu 3249.23 3834.49 1372.41 1582.8 274.48 316.56
32 Telangana 408.51 554.77 204.25 277.2 40.85 55.44
33 Tripura 36.62 49.33 32.96 44.4 6.59 8.88
34 Uttar Pradesh 3287.27 3895.16 1409.07 1638 281.81 327.6
35 Uttarakhand 269.93 197.33 133.68 177.6 26.74 35.52
36 West Bengal 1104.86 1393.69 552.43 642 110.49 128.4
Total 20773.77 24869.76 9893.73 11540.23 1978.74 2308.05
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ANNEXURE-VI

URBAN INFRASTRUCTURE DEVELOPMENT IN SATELLITE TOWNS AROUND SEVEN MEGA CITIES (UIDSST)

(Fund released for solid waste management projects during the last three years)
<pre>
(Rs. in Lakh)
Name of the State Name of the project Year of sanction Estimated cost of Project 2013-14
2014-15 2015-16 2016-17
(8.12.16)
Gujarat
(Sanand)
Solid waste management scheme for Sanand Nagarpalika Gujarat 2010-11 213.62
43.72 21.00 4.21 -
Haryana
(Sonepat) Municipal solid waste management scheme for Sonepat town 2010-11 2496.00
- - - -
UP
(Pilkhuwa) Municipal solid waste management scheme for Pilkhuwa town 2010-11 897.70
- 179.54 179.54 -
Tamil Nadu
(Sriperumb
-udur) Integrated solid waste management project for Sriperumbudur 2011-12 443.77
88.75 88.75 88.75 -
Maharashtra
(Vasai-virar) Integrated solid waste management project for Vasai-virar 2010-11 3172.64
- - 634.53 -
Total 7223.73 132.47 289.29 907.03 -
</pre>

URBAN INFRASTRUCTURE DEVELOPMENT IN SATELLITE TOWNS AROUND SEVEN MEGA CITIES (UIDSST)
(Fund released for sewerage / drainage projects during the last three years)

(Rs. in Lakh)
<pre>
Name of the State / City Name of the project Year of sanction Estimated cost of the project Fund released
2013-14
2014-15
</pre>

2015-16 2016-17
(as on 8.12.16)
Telangana (Vikarabad) Underground drainage scheme for Vikarabad town, AP 2010-11 6474.00 696.19 1295.00 - -

Gujarat (Sanand) Sewerage scheme for sanand town 2010-11 5848.68 - 2339.48 - -

UP (Pilkhuwa) Pilkhuwa sewage scheme 2010-11 368.00 - 368.75 368.75 -

Tamil Nadu
(Sriperembudur) Providing comprehensive sewerage scheme for Sriperembudur 2011-12 5622.00 - 1124.40 1124.40 -

Maharashtra
(Vasai-virar) Underground sewerage scheme for Vasai-virar STP-2 2010-11 6622.63 - 1324.52 401.46 923.06

Karnataka (Hoskote) Underground sewerage scheme for Hoskote 2011-12 4072.84 - - 734.46 691.78
Total 828.66 6452.15 2629.07 1614.84

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ANNEXURE REFERRED TO IN REPLY TO LOK SABHA UN-STARRED QUESTION NO. 4481 FOR 14.12.2016 REGARDING "WASTE MANAGEMENT"
ANNEXURE-VII

10% LUMPSUM SCHEME FOR NE STATES
(Fund released for solid waste management projects during the last three years)

(Rs. in Lakh)
<pre>
Name of the State Name of the project Year of sanction Estimated cost of project 2013-14
2014-15 2015-16 2016-17 (8.12.16)
Arunachal
Pradesh Solid Waste Management at Daporijo township 2013-14 597.68
- 161.37 - -
</pre>

10% LUMPSUM SCHEME FOR NE STATES
(Fund released for sewerage / drainage projects during the last three years)
(Rs. in Lakh)
<pre>
Name of the State Name of the project Year of sanction Estimated cost of the project 2013-14
2014-15 2015-16
2016-17
(as on 8.12.16)
Arunachal
Pradesh 1. Development of storm water drainage, Khonsa, AP 2011-12 422.29 114.01 114.02 - 114.03
2. Aalo storm water drainage scheme (Ph-II), AP 2011-12 929.05 334.46 209.04 - -

Assam 1. Golaghat master plan area storm water drainage scheme Ph-I, Assam 2004-05 718.56 - - - 277.69
1. C/o Karimganj Storm water drainage scheme (Ph-I), Assam 2007-08 1183.57 - - 355.07 -
2. C/o drainage system for Dhemaji town, Assam 2006-07 1217.00 - - - -
3. Tinsukia master plan area storm water drainage scheme, Assam 2006-07 1391.11 - - - -
Total 448.47 323.06 355.07 391.72
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